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GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENT
LANSING



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DIRECTOR

October 27, 2010

VIA ELECTRONIC and US MAIL

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Dear Sirs:

SUBJECT: Gelman Sciences, Inc. Remedial Action
Final Well Identification Report, March 12, 2010

The Department of Natural Resources and Environment (DNRE) has identified several concerns with the well identification process used by Pall Life Sciences (PLS) to meet the requirements of paragraph 6 of the Order Prohibiting Groundwater Use (PZ Order) issued by the Washtenaw County Circuit Court (Court) on May 17, 2005. As a result of a dispute regarding the PZ Order, the Court issued an Order Resolving Plaintiffs' Motion to Enforce Order Prohibiting Groundwater Use (Resolution Order) on September 2, 2009. PLS submitted its Final Well Identification Report (Report) to document the steps taken to comply with the Resolution Order. The first section of this letter provides the DNRE's comments on PLS's Report. The second section of this letter provides the DNRE's comments on PLS's previous well identification efforts, which came to light as we reviewed the submittal mentioned above.

Final Well Identification Report

Surveys and Notifications

The Report divided the addresses into four categories, depending upon the action to be taken. The first three categories required that PLS survey and/or provide notification¹ regarding the prohibition against use of any existing private water supply wells within the Prohibition Zone (PZ). The Report indicates that the owner of the property at these addresses would be contacted. The Resolution Order required that PLS request the resident of any property surveyed to forward the information to the owner, if applicable. We note that the letters mailed to these properties (as provided in Exhibits 1, 2, and 3) were addressed to "Resident" and that they did not include a request that any non-resident owner be notified. There is no indication that PLS attempted to determine if the resident was also the owner of the property or requested that the letter be forwarded to the owner, if applicable. A resident who is not the property owner may not have provided the letter to the owner. In order to ensure the protectiveness of the PZ, it is important that the property owner be surveyed and/or notified.

On a related matter, it recently came to our attention that the house at 1251 North Main Street has been vacant for many years, and recently collapsed. Although the Report documents that the notice was mailed to that address, it is likely that it was not delivered. Please confirm that all of the letters were mailed in envelopes that contained PLS's return address. To ensure that

¹ The Resolution Order required that any properties surveyed also be provided with a copy of the PZ Order. In some cases the DNRE agreed that a survey was not required, and that PLS needed to provide only the PZ Order.

each property owner has received the relevant documents, PLS must either document that it requested the Resident to forward the information to the owner or determine if any of the properties are not occupied by the owner and provide the survey and/or notification to them at their address of record. PLS must then provide the DNRE with documentation that it has complied with the terms of the Resolution Order, which were intended to ensure that each property owner received the required survey and/or notification. Please also confirm that each survey and/or notification was mailed in an envelope with PLS's return address.

The letter provided in Exhibit 1 does not indicate that any wells found must be properly plugged. The other two letters (Exhibits 2 and 3) did indicate that PLS would pay to plug any wells found. All such future correspondence must include language to indicate that PLS will pay the cost of plugging any wells found.

Additional Documentation

The fourth category of addresses in the Report included 12 for which PLS was to provide additional documentation. The text in this section of the Report, at the top of page 3, states:

“The parties also agreed that PLS would either provide documentation *confirming the availability* (emphasis added) of City water within one year of construction or the name of the City staff person who provided the information to PLS for the following properties:”

Pursuant to the Resolution Order, the parties agreed upon the addresses that needed to be surveyed. The Resolution Order required PLS to survey the residents regarding the existence of a well on the property, request access and inspect the property if no response is received or the response does not affirmatively confirm the absence of a well, submit documentation of the results, and provide a copy of the Court's May 17, 2005 PZ Order. As an alternative to surveying some of the properties, the parties agreed that PLS could provide documentation to support the determination that no survey was needed, as documented in the text for the agreed upon list of addresses².

For five of the addresses in this category, PLS is apparently relying on the “tap date” as documentation that these houses were connected to the City of Ann Arbor (City) municipal water supply (City water) on that date. As we have indicated in previous correspondence to PLS, the “tap date” (the date that a valve was installed on the water main in the right-of-way for an address) is not documentation that the house was actually connected to City water at that time.

The houses at 1600, 2015, and 2101 Arborview are not in subdivisions and are currently in the City. If PLS can document that these houses were in the City when built, the DNRE will accept that the existence of a well is unlikely and that a survey is not necessary. These houses were all built after 1945, when the City's ordinance required connection to City water. If these houses were not in the City when built, PLS must provide documentation that they were connected to City water within one year of being built (i.e., date water meter installed), or survey the owner(s).

The houses at 2020 and 2106 Dexter are in Ann Arbor Township (2020 Dexter was mistakenly identified as being in the City in earlier PLS and DNRE documents). The Report also apparently relies on the “tap date” to indicate the house was connected to City water when built. As

² This list was transmitted from Assistant Attorney General Celeste Gill to PLS's legal counsel on September 12, 2009.

indicated above, that does not document that the house was actually connected to City water at that time. Because these township properties are not subject to City ordinances, they were not required to connect to City water, regardless of when they were built. PLS must provide documentation that these houses were connected to City water within one year of being built (i.e. date water meter installed) or survey the owner(s).

The copy of the PZ Order included in Exhibits 1, 2, and 3 did not include a copy of the Figure 1, an attachment to the PZ Order. One of the survey respondents noted that there was no map enclosed. All future correspondence that requires PLS to provide a copy of the PZ Order, must include the entire PZ Order, including Figure 1.

Results

The Report indicates that two water supply wells were found and plugged (1605 Miller and 2005 Penncraft). There is no indication that PLS attempted to sample these wells. The DNRE's approval of the well identification work plan required that any wells found be sampled for 1,4-dioxane. Please inform us if any attempt was made to sample these wells, and provide us with any results obtained. In the future, PLS must attempt to collect a water sample from any well found before it is plugged and notify the DNRE of the results, or that a sample was not obtainable.

Additional Comments Regarding Prior Well Identification Work Plan Results

PLS's most recent correspondence on this matter, dated October 24, 2008, included a table with PLS comments. Six addresses in the table (3404 Porter, 281 Rhea, 249, 267, and 359 South Wagner, and 211 Westover) included the comment: "Will inspect or send letter." The DNRE has not received any information that these letters were sent. Please provide documentation that the owners of these properties have been properly notified and provided a copy of the entire PZ Order, and the results of any inspection performed. If this has not been done, the DNRE believes that PLS should provide a notification letter similar in content to the version approved by the DNRE on April 18, 2006 to the owner of the property, including a copy of the PZ Order.

There are 15 addresses that PLS had previously surveyed where it was not able to document that a copy of the PZ Order had been provided. These addresses are identified in the enclosed Table 1 in the "Comments" column by "PLS to provide PZ Order." The DNRE believes it is PLS's responsibility to do so, since the original work plan did include this requirement. If PLS does not do so, the DNRE will provide the owners with an explanatory cover letter and a copy of the PZ Order. Please inform us of PLS's intent regarding this request.

There are 25 addresses that have not been surveyed where the existence of a water supply well has not been eliminated or a well is believed to exist, based on the available information. These addresses are identified in the enclosed Table 1 in the "Comments" column by "DNRE to provide PZ Order." The DNRE will provide the owners with an explanatory cover letter and a copy of the PZ Order unless PLS notifies us that it intends to do so. If PLS agrees to provide this notice, it must use a letter similar to the version approved by the DNRE on April 18, 2006 and provide documentation to the DNRE that the notice has been mailed in an envelope with PLS's return address.

The DNRE recently became aware of a few older houses in the Lake Wood subdivision, which was platted in 1925 when it was part of Scio Township. PLS's February 28, 2006 Well Identification Report represented that this subdivision was provided with City water at the time it

was platted. The DNRE had accepted that representation until a recent review of historical maps of the City's water supply system showed that this subdivision was not within the City's water distribution system until at least 1955. The 1959 map shows there was an elevated water tank in this subdivision. These maps indicate that City water became available to this subdivision between 1955 and 1959. PLS must provide additional documentation regarding the water supply for this area and perform the well identification process for any houses where connection to City water cannot be documented within one year of construction.

PLS has yet to take any action to resolve the use of the irrigation well at the Bethlehem Cemetery (2801 Jackson). As the DNRE has previously indicated, this well is subject to the PZ Order and must be plugged unless PLS requests an exception to the PZ Order and receives the DNRE's approval of the exception. PLS must take steps to resolve the status of this well this year.

Conclusion

The enclosed Table 1, sorted by street address, documents the current information gathered about the presence or absence of any private water supply wells at addresses within the current PZ where such wells were known, suspected or their absence could not be verified. The DNRE will maintain this list and make it available to the public via the DNRE's Gelman Sciences, Inc. web site.

PLS will remain responsible for properly plugging any wells within the current PZ, and any expansion thereof, that are subsequently identified unless an exception is approved, and for properly plugging any wells where an exception is approved once the circumstances relating to the exception no longer apply.

As indicated above, there are several additional steps that must be taken to complete the tasks required by the PZ Order for the original PZ and to complete the tasks included in the original well identification work plan. Please provide us with the information requested and inform us within 30 days of the date of this letter whether PLS intends to perform some or all of the additional tasks discussed in this letter, and a schedule for doing so.

Should you require further information, please contact me at 517-780-7937; kolons@michigan.gov; or the DNRE Jackson District Office, 301 East Louis Glick Highway, Jackson, Michigan 49201.

Sincerely,

Sybil Kolon
Environmental Quality Analyst
Gelman Sciences Project Coordinator
Remediation Division

SK/KJ

Enclosures

cc: Ms. Celeste Gill, Department of Attorney General
Ms. Lynelle Marolf, DNRE
Mr. Philip Schrantz, DNRE
Mr. Mitchell Adelman, DNRE/Gelman File
Mr. James Cogger, DNRE

Water Supply Well Identification Status in Prohibition Zone - October 2010
Gelman Sciences, Inc., Washtenaw County, Michigan

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Arborview 1516	NA	NA	1967	not in subdivision; first billed for water in 1967 & annexed 1968	N	N	Y4	A1	NA	0	done
Arborview 1522	no sample	NA	1935	owner of 28 years says hooked up when built; no knowledge of wells, not in subdivision; in city limits when built, before hook up required; 1st billed for water in 1978	YY	Y	Y3	E1		?	done*
Arborview 1600	NA	NA	1953	not in subdivision; in city limits when built?; 1st billed for water in 1984	N	N	Y4	E2		?	PLS needs to provide documentation that in city when built or hooked up to city water within one year of being built; date tap available does not confirm hooked up at that time
Arborview 1606	NA	NA	1981	not in subdivision; in city limits when built, 1st billed for water in 1981	N	N	Y4	A1	NA	0	done
Arborview 1610	NA	NA	1984	not in subdivision; in city limits when built, 1st billed for water in 1985	N	N	Y4	A1	NA	0	done
Arborview 1614	NA	NA	1984	not in subdivision; in city limits when built; 1st billed for water in 1984	N	N	Y4	A1	NA	0	done
Arborview 2015	NA	NA	1956	not in subdivision; in city limits when built?; 1st billed for water in 1977	N	N	Y4	E2		?	PLS needs to provide documentation that in city when built or hooked up to city water within one year of being built; date tap available does not confirm hooked up at that time
Arborview 2101	NA	NA	1953	not in subdivision; in city limits when built?; 1st billed for water in 1982	N	N	Y4	E2		?	PLS needs to provide documentation that in city when built or hooked up to city water within one year of being built; date tap available does not confirm hooked up at that time
Arborview 2107	NA	NA	1992	not in subdivision; in city limits when built; 1st billed for water in 1993	N	N	Y4	A1	NA	0	done
Arborview 2111	NA	NA	1955	part of Arbor Heights subdivision; built in city after hook-up required	N	N	N	A1	NA	0	done
Arborview 2113	NA	NA	1958	part of Arbor Heights subdivision; built in city after hook-up required	N	N	N	A1	NA	0	done
Arborview 2115	NA	NA	1956	part of Arbor Heights subdivision; built in city after hook-up required	N	N	N	A1	NA	0	done
Dexter 1500	no sample	NA	1853 per owner	resident not aware of any wells, no inspection; not in subdivision; built before hook-up available or required; tap available 1915; annexed to city in 1964; 1st billed for water in 1978	YY	Y	Y1	D1		1	done*
Dexter 1610	no sample	NA	1937	Assessor's Plat #12, built before hook-up required; annexed 1964	N	N	N	E2		?	DNRE to provide PZ order
Dexter 1614	no sample	NA	1931	Assessor's Plat #12, built before hook-up required; annexed 1964; 1st billed for water 2005	N	N	N	E2		?	DNRE to provide PZ order
Dexter 1616	no sample	NA	1920 or 1929	built 1929 per city utilities, 1920 per assessor, tap date 6/29/22; built in city before Assessor's Plat #12 was platted & before hook up required	N	N	N	E2		?	DNRE to provide PZ order
Dexter 1704	NA	NA	1952	Assessor's Plat #12; built in city after hook-up required	N	N	N	A1	NA	0	done
Dexter 1706	no sample	NA	1926	tap date 7/24/26; built in city before Assessor's Plat #12 was platted & before hookup required	N	N	N	E2		?	DNRE to provide PZ order
Dexter 2008	no sample	NA	1935	resident not aware of any wells, no inspection; not in subdivision, built before hook-up required	YY	Y	Y1	E1		?	done*
Dexter 2010	NA	NA	1954	not in subdivision; PLS confirmed annexed to city prior to 1944, would have been required to hook up to city water when built	N	N	Y4	A1	NA	0	done
Dexter 2020	NA	NA	1946	not in subdivision; A2 twp island, tap available within one year of construction per PLS	N	N	Y4	E2		?	that hooked up to city water within one year of being built; date tap available does not confirm hooked up at that time
Dexter 2102	no sample	NA	1901	not in subdivision, built before hook-up available or required; annexed to city in 1971; 1st billed for water in 1996	YN	Y	Y1	D1		1	done*

Water Supply Well Identification Status in Prohibition Zone - October 2010
Gelman Sciences, Inc., Washtenaw County, Michigan

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Dexter 2106	no sample	NA	1937	not in subdivision; A2 twp island, not required to hook up when built, on city water	YN	?	Y4	E2		?	PLS needs to provide documentation that hooked up to city water within one year of being built; date tap available does not confirm hooked up at that time
Dexter 2200	no sample	NA	1950	not in subdivision; A2 twp island, on city water, 1st billed for city water in 1990; owner of 15+ yrs unaware of any wells	YY	Y	Y3	E1		?	done*
Dexter 2310	NA	NA	1966	survey also included 2320 & 2324 Dexter, same owner, per PLS 10/19/06 email, hooked up when built; annexed 2002	YY	?	N	A1	NA	0	done
Dexter 2320	ND	Jul-02		well abandonment log received	YY	?	N	A2	x	0	done
Dexter 2324	NA	NA	1979	restaurant; tap available and first billed for city water in 1979; annexed 2002	YY	?	Y4	A1	NA	0	done
Dexter 2330	NA	NA		see 2340 Dexter; was on same parcel & served by well at 2340 Dexter	N	?	N	A1	NA	0	done
Dexter 2340	ND	Sep-06		PLS hooked up to city water & plugged well; had shared well with 2330 & 2344 Dexter on same parcel; now redeveloped as Aldi's	N	?	N	A2	x	0	done
Dexter 2344	NA	NA		see 2340 Dexter; was on same parcel served by well at 2340 Dexter	N	?	N	A1	NA	0	done
Ferry 3401	127	Apr-86		well abandonment log received	N	N	N	A2	x	0	done
Ferry 3409	2900	Jan-91		well abandonment log received	N	N	N	A2	x	0	done
Ferry 3417	166	Apr-86		well abandonment log received	N	N	N	A2	x	0	done
Ferry 3432	3800	Aug-01		inspected, no well found; original structure demolished and replaced in 2004; old house had well; kept open for monitoring per 5/24/94 letter;	YY	?	N	D3		1	PLS to provide PZ order
Ferry 3445	ND	May-86	1925	daycare owner of 10 years states well was removed when hooked up to city water, not aware of who removed it; PLS staff examined property-no wells found; annexed 2000	YY	?	N	D3		1	PLS to provide PZ order
Ferry 3459	ND	Jan-06		well abandonment log received	N	N	N	A2	x	0	done
Ferry 3463	ND	May-86		well abandonment log received	N	N	N	A2	x	0	done
Glendale S 312	no sample	NA	1920 & 1950	not in subdivision; 2 residences on parcel, older one built before hook-up required; tenant of 5 yrs had no knowledge of wells; PLS staff inspected property - no wells found; annexed 1989	YY	Y	Y3	E1		?	done*
Glendale S 402	no sample	NA	1953	not in subdivision; owner since 1985 says house built approx. 1950, hooked up when built; no knowledge of wells	YY	Y	Y3	A1	NA	0	done
Glendale S 404	no sample	NA	1950	not in subdivision; owner since 1966 says hooked up when built, no knowledge of wells	YY	Y	Y3	A1	NA	0	done
Jackson 1743	no sample	NA	1901	built before Assessors Plat No. 4 was platted in 1920 & before hook-up required; annexed 1964; 1st billed for water 1982	N	N	N	E2		?	DNRE to provide PZ order
Jackson 1903	no sample	NA	1901	built before Assessors Plat No. 4 was platted in 1920 & city water not available when built; annexed 1964; 1st billed for water 1992	YN	?	N	D3		1	PLS to provide PZ order
Jackson 1921	no sample	NA	1914	owner since 1955 not aware of any wells on property but said house not hooked up when built; built before Assessor's Plat No. 4 was platted & before hook-up required; annexed 1964; 1st billed for water 1996	YY	?	N	D3		1	PLS to provide PZ order
Jackson 1943	NA	NA	1920	resident not aware of any wells, no inspection	YY	Y	Y1	D1		1	done*
Jackson 2801	ND	Sep-06		Bethlehem Cemetery irrigation well still in use	N	N	N	C		1	PLS to plug or request exception
Jackson 3050	129	Jan-07		Weber's Inn; heat pump well w/discharge to surface water; plugged Jan 2007	N	?	N	A2	x	0	done
Jackson 3365	445	Apr-08		DEQ approved as monitoring well July 2006; also the location of MW-30i&d	N	?	N	B		1	PLS to plug when not required for monitoring
Jackson 3395	261	May-86	1952	kept open for monitoring per 5/24/94 letter; inspected, no wells identified; annexed 1987	YY	?	N	D3		1	PLS to provide PZ order
Jackson 3480	2	Jan-07		Varsity Ford; well abandonment log received	N	?	N	A2	x	0	done

Water Supply Well Identification Status in Prohibition Zone - October 2010
Gelman Sciences, Inc., Washtenaw County, Michigan

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Maple N 512	NA	NA	1948 - 1958	2380 & 2390 Dexter were previously on this parcel, vacant 2008 thru 2010; not in subdivision; AKT Peerless Phase II ESA, Sept. 2007 indicates potential for old drinking water wells; annexed 1964; 1st billed for water 1988	YN	?	N	D3		1	PLS to provide PZ order
Miller 1120	NA	NA	1908	resident said well plugged in 1930 when hooked up to water; no inspection	YY	Y	Y1	A2	none	0	done* (cannot confirm well was plugged)
Miller 1128	NA	NA	1901 & ?	resident not aware of any wells, no inspection; two residences	YY	Y	Y1	D1		1	done*
Miller 1146	NA	NA	1952	resident not aware of any wells, no inspection	YY	Y	Y1	E1		?	done*
Miller 1521	no sample	NA	1901	not in subdivision; 1st billed for water 1990; annexed 2003; well plugged & log provided to DEQ	YN	?	N	A2	x	0	done
Miller 1541	no sample	NA	1959	resident not aware of any wells, no inspection; not in subdivision; two residences on parcel; annexed 1964; 1st billed for city water in 1993; (also 1547 Miller)	YY	Y	Y1	E1		?	done*
Miller 1547	no sample	NA	1901?	surveyed as part of 1541 Miller (see that address); unknown if this house has water	---	---	Y1	D1		1	done*
Miller 1553	no sample	NA	1915	not in subdivision; city water not available when built; annexed 1982; 1st billed for water in 2005	YN	Y	Y1	D1		1	done*; neighbor at 1541 Miller said this house had a well, described location; should DNRE follow-up?
Miller 1575	no sample	NA	1930	not in subdivision; city water not available when built; annexed 1979; 1st billed for city water in 1993	YN	Y	Y1	D1		1	done*
Miller 1593	no sample	NA	1930	not in subdivision; city water not available when built; annexed & 1st billed for water in 1970	YN	Y	Y1	D1		1	done*
Miller 1605	no sample	NA	1884	inspected, found well & plugged to 105'; not in subdivision; city water not available when built; 1st billed for water in 1979; annexed in 1983	YY	Y	Y1	A2	x	0	done (no indication PLS sampled well before plugging)
Miller 1629	no sample	NA	1901	not in subdivision; city water not available when built; 1st billed for water 1986; annexed 1987	YN	Y	Y1	D1		1	done*
Miller 1645	no sample	NA	1950	not in subdivision; 1st billed for water 1979; annexed 2006	YN	Y	Y3	E1		?	done*
Miller 1685	NA	NA	1970	not in subdivision	YN	Y	Y1	E1		?	done*
N Main 1251	NA	NA	1925	industrial building on same parcel built 1999; not in subdivision; built before hook-up required	N	Y	Y2	E1		?	done*
N Main 1311	NA	NA	1940	not in subdivision; built before hook-up required	N	Y	Y2	E1		?	done*
N Main 1313	NA	NA	1930	not in subdivision; built before hook-up required	N	Y	Y2	E1		?	done*
N Main 1315	NA	NA	1940	not in subdivision; built before hook-up required	N	Y	Y2	E1		?	done*
N Main 1319	NA	NA	1940	not in subdivision; built before hook-up required	N	Y	Y2	E1		?	done*
Newport 0941	no sample	NA	1901	not in subdivision; annexed 1964, no tap available until 1985; 1st billed for water 2005	YN	Y	Y3	D1		1	done*
Newport 0960	no sample	NA		irrigation well; well abandonment log received	YY	?	N	A2	x	0	done
Newport 0960	no sample	NA		old well w/hydrant handle; follow-up call w/owner, said well was plugged years ago; no well under pump handle	YY	?	N	A2	none	0	done* (cannot confirm well was plugged)
Newport 1005	no sample	NA	1932	not in subdivision; tap date 5/29/35; annexed by 1951; combined with parcel that no longer has house at 1015 Newport	YN	Y	Y1	D1		1	done*
Newport 1015	no sample	NA	1936	no longer exists - see 1005 Newport	---	---	Y1	E1		?	done*
Newport 1025	NA	NA	1956	not in subdivision	YN	Y	Y1	E1		?	done*
Newport 1035	NA	NA	1956	not in subdivision	YN	Y	Y1	E1		?	done*
Newport 943	NA	NA	1947	not in subdivision	YN	Y	Y1	E1		?	done*
Newport Rd 1056	NA	NA	1941	resident not aware of any wells, no inspection; not in subdivision	YY	Y	Y1	E1		?	done*
Newport Rd 1057	NA	NA	1948	not in subdivision	YN	Y	Y1	E1		?	done*
Newport Rd 1065	NA	NA	1956	not in subdivision	YN	Y	Y1	E1		?	done*
Newport Rd 1075	NA	NA	1956	not in subdivision	YN	Y	Y1	E1		?	done*
Newport Rd 1125	NA	NA	1952	resident said hooked up when built, no inspection; not in subdivision	YY	Y	Y1	A1	NA	0	done
Newport Rd 1135	NA	NA	1952	resident not aware of any wells, no inspection; not in subdivision	YY	Y	Y1	E1		?	done*
Newport Rd 1144	NA	NA	1947	resident not aware of any wells, no inspection; not in subdivision	YY	Y	Y1	E1		?	done*

Water Supply Well Identification Status in Prohibition Zone - October 2010
Gelman Sciences, Inc., Washtenaw County, Michigan

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Newport Rd 1145	NA	NA	1954	not in subdivision	YN	Y	Y1	E1		?	done*
Orkney Dr 1202	NA	NA	1940	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Orkney Dr 1206	NA	NA	1940	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Penncraft Ct 2000, 2010, 2020, 2021	no sample	NA	1940s 1950s	community well taken out of service 44 years ago, original owner of 2010 Penncraft says filled in; inspector could not locate; not in subdivision, city water not available when built	YY	?	N	A2	none	0	done* (cannot confirm well was plugged)
Penncraft Ct 2003	no sample	NA	1941	not in subdivision; city water not available when built, may have been on community well or had its own	YN	Y	Y3	E1		?	done*
Penncraft Ct 2005	no sample	NA	1953	PLS plugged well in 2009 to 87 ft.; not in subdivision, city water not available when built; original survey response reported an unused well in front of the house (in addition to community well)	YY	?	Y1	A2	x	0	done (no indication PLS sampled well before plugging)
Pine Ridge 205	no sample	NA	1939	Assessor's Plat #12; built before hook up required	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 208	no sample	NA	1940	Assessor's Plat #12; built before hook up required	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 211	no sample	NA	1911	30 yr. owner has no knowledge of well; built before Assessor's Plat #12 was platted & before hook up available; annexed 1963; 1st billed for water 1996	YY	?	N	D3		1	PLS to provide PZ order
Pine Ridge 212	no sample	NA	1940	Assessor's Plat #12; built before hook up required	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 215	no sample	NA	1919	built before Assessor's Plat #12 was platted & before hook up available; annexed to city 1964; 1st billed for water 1985; annexed 2003	YN	?	N	D3		1	PLS to provide PZ order
Pine Ridge 216	no sample	NA	1929	built before Assessor's Plat #12 was platted, before hook up required; tap date 1927	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 218	no sample	NA	1925	built before Assessor's Plat #12 was platted, before hook up required; tap date 1926	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 300	no sample	NA	1926	built before Assessor's Plat #12 was platted, before hook up required; tap date 1928	N	N	N	D3		1	DNRE to provide PZ order
Pine Ridge 301	no sample	NA	1922	built before Assessor's Plat #12 was platted, before hook up required; tap date 1925	N	N	N	D3		1	DNRE to provide PZ order
Pine Ridge 304	no sample	NA	1920	built before Assessor's Plat #12 was platted, before hook up required; tap date 1927	N	N	N	D3		1	DNRE to provide PZ order
Pine Ridge 305	no sample	NA	1925	built before Assessor's Plat #12 was platted, before hook up required; tap date 1926	N	N	N	E2		?	DNRE to provide PZ order
Pine Ridge 308	NA	NA	1950	Assessor's Plat #12; built in city after hook-up required	N	N	N	A1	NA	0	done
Pine Ridge 311	no sample	NA	1924	built before Assessor's Plat #12 was platted, before hook up required; tap date 1927; annexed 1964; 1st billed for water 1992	N	N	N	D3		1	DNRE to provide PZ order
Pine Ridge 312	no sample	NA	1928	built before Assessor's Plat #12 was platted, before hook up required; tap date 1929	N	N	N	E2		?	DNRE to provide PZ order
Pine Tree Dr 1000	NA	NA	1954	not in subdivision	YN	Y	Y1	E1		?	done*
Porter 3404	ND	Mar-93	1940	owner has lived there two months; has no knowledge of wells; annexed 1988; to be plugged per 5/24/94 letter;	YY	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Porter 3412	15	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Porter 3415	ND	May-86		PLS could not locate well when attempted to sample in past; annexed 2001	YN	?	N	D3		1	PLS to provide PZ order
Porter 3437	ND	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Rhea 281	ND	May-86	1945	occupant has no knowledge of well but provided name of owner for more info; annexed 1988	YY	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Sunset Rd 223	NA	NA	1901	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Sunset Rd 428	NA	NA	1901	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Sunset Rd 446	NA	NA	1920	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order

Water Supply Well Identification Status in Prohibition Zone - October 2010
Gelman Sciences, Inc., Washtenaw County, Michigan

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Sunset Rd 450	NA	NA	1901	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Sunset Rd 502	NA	NA	1937	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Sunset Rd 516	NA	NA	1901	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Sunset Rd 528	NA	NA	1926	identified during well ID dispute; in city when built, before 1945 when hook-up not required	N	N	N	E2		?	DNRE to provide PZ order
Valley 2575	57	Nov-07	1958	DEQ approved as monitoring well Jan 2006	N	?	N	B		1	PLS to plug when not required for monitoring
Valley 2605	no sample	NA	1941	in township when built & hook-up not required; annexed & tap date 1969; 1st billed for water in 2002	YN	?	N	D3		1	PLS to provide PZ order
Valley 2615	no sample	NA	1928	owner says hooked up in 1968 but has no knowledge of wells; in township when built & hook up not required; 1st billed for water 1970; annexed 2007	YY	?	N	D3		1	PLS to provide PZ order
Valley 2631	no sample	NA	1959 or 1970	owner since 1979 says built in 1970, has no knowledge of wells but does not know if hooked up when built; city web site says built 1959; 1st billed for water 1968; annexed 1969	YY	?	N	E2		?	PLS to provide PZ order
Valley 2645	NA	NA	1971	original owner says hooked up when built; annexed 1967	YY	?	N	A1	NA	0	done
Valley 2661	no sample	NA	1940	owner says not hooked up when built but has no knowledge of wells; annexed & 1st billed for water 1969	YY	?	N	D3		1	PLS to provide PZ order
Valley 2667	NA	NA	1969	house was empty when surveyed; new owner; annexed & tap date 1968	YN	?	N	A1	NA	0	done
Valley 2675	NA	NA	1968	owner of two years says hooked up when built; no knowledge of well; annexed & tap date 1968	YY	?	N	A1	NA	0	done
Valley 2681	NA	NA	1969	owner says no well; annexed & tap date 1968	YY	?	N	A1	NA	0	done
Valley 2689	NA	NA	1969	occupant does not know if hooked up when built, has no knowledge of wells; annexed & tap date 1968	YY	?	N	A1	NA	0	done
Valley 2695	NA	NA	1969	annexed & tap date 1968	YN	?	N	A1	NA	0	done
Valley 2721	no sample	NA	1928	inspected by PLS, no wells found; not hooked up when built per owner; annexed in 1969; 1st billed for water 2000	YY	?	N	D3		1	PLS to provide PZ order
Valley 2731	NA	NA	1973	owner since 1978 says hooked up when built, no knowledge of wells; annexed & tap date 1970	YY	?	N	A1	NA	0	done
Valley 2741	NA	NA	1978	owner does not know if hooked up when built; has no knowledge of wells; tap date 1978; annexed 1979	YY	?	N	A1	NA	0	done
Valley 2825	no sample	NA	1951	original owner said there was a well, not sure if plugged, believes hooked to city water 1970-1980; PLS could not locate well; 1st billed for water 1978; annexed 1981	YY	?	N	D3		1	PLS to provide PZ order
Valley 2835	NA	NA	1980	original owner says hooked up when built; annexed & tap date 1980	YY	?	N	A1	NA	0	done
Valley 2915	no sample	NA	1950	owner of 26 years says well in basement not in use; well plugged	YY	?	N	A2	x	0	done
Valley 2949	NA	NA	2002	vacant until 2002; annexed 2002	N	N	N	A1	NA	0	done
Wagner S 127	NA	NA	2002	vacant until 2002	N	N	N	A1	NA	0	done
Wagner S 137	NA	NA	2003	vacant until 2002; tap date 2002; annexed 2003	N	N	N	A1	NA	0	done
Wagner S 157	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Wagner S 205	ND	May-86		WAL w/5/19/06 report	YN	?	N	A2	x	0	done
Wagner S 215	NA	NA	1997	tap date 1997; annexed 2001	N	N	N	A1	NA	0	done
Wagner S 249	ND	May-86	1926	owner of 8 years doesn't know if well abandoned; annexed 1987	YY	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Wagner S 267	ND	May-86	1925	annexed 1988	YN	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Wagner S 343	NA	NA	NA	vacant lot as of 2009; in city	N	N	N	A1	NA	0	done
Wagner S 351	ND	May-86		current owner says it was capped; WAL w/5/19/06 report	YY	?	N	A2	x	0	done

Address	1,4-dioxane ppb	date of sample	date built	Well History and Status	Survey/ Response	PZ Order Provided	In 9/2/09 Order ¹	DNRE Comment Code	WAL ²	Well ³	Comments ⁴
Wagner S 359	ND	Aug-01		annexed 1988	YN	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Wagner S 591	NA	NA		hooked up to city water by PLS; did not have well previously	N	?	N	A1	NA	0	done
Wagner S 597	ND-deq	Sep-04		PLS hooked up to city water & plugged	N	?	N	A2	x	0	done
Wagner S 603	ND-deq	Feb-96		PLS hooked up to city water & plugged	N	?	N	A2	x	0	done
Wagner S 609	2-deq	Sep-04		PLS hooked up to city water & plugged	N	?	N	A2	x	0	done
Wagner S 679	ND	Aug-01		PLS hooked up to city water & plugged	N	?	N	A2	x	0	done
Wagner S 685	ND	Jul-08		1,4-dioxane never detected; vacant, well damaged & septic system has failed as of March 2010; can't be occupied until hooked up to sewer & city water	N	Y	N	D2		1	PLS must provide city water & plug well when connected to sewer
Wagner S 697	ND	Jul-08		1,4-dioxane never detected; owner has not signed PLS contract to be hooked up to city water; PLS to monitor annually and provide annual notice until hooked up	N	Y	N	D2		1	PLS must sample annually & provide city water at the request of the property owner
Westover 056	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 060	NA	NA	2004	in city limits and 1st billed for water 2005	N	N	N	A1	NA	0	done
Westover 065	89	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 075	NA	NA	2004	in city limits & 1st billed for water in 2005	N	N	N	A1	NA	0	done
Westover 126	ND	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 143	165	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 144	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 160	NA	NA	2000	appears to have been vacant before 2000; 1st billed for water in 2006	N	N	N	A1	NA	0	done
Westover 163	103	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 204	7	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 211	ND	Jul-92	1920s	owner of 6 years says built 1920s; unsure if well plugged; kept open for monitoring per 5/24/94 letter; annexed 1988	YY	?	N	D3		1	PLS will inspect or send letter per 10/24/08 report
Westover 212	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 213	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 235	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 254	ND	Apr-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
Westover 263	ND	May-86		WAL w/5/19/06 report	N	N	N	A2	x	0	done
FOOTNOTES				DNRE Comment Codes							
1 - Y1 (survey & PZ order) Y2 (PZ order only) Y3 (verify PZ order provided) Y4 (documentation of well status) 2 - well abandonment log (WAL) on file if "x"; not applicable if "NA" 3 - well not plugged or not documented to be plugged if "1"; no well or former well plugged if "0" 4 - done* - if well found, PLS to plug				A1 - no further action; no evidence of a well A2 - no further action; well plugged B - DNRE approved monitoring well C - DNRE will consider exception D1 - well known/believed to exist; hooked up to city water, PZ notice provided D2 - well used for drinking water D3 - well known/believed to exist; hooked up to city water, PZ notice not yet provided E1 - existence of well unknown; PZ order provided E2 - existence of well unknown; PZ order not yet provided							